

## PTR-25 360° vertical mini rotator

Compact, economy solution with simple to use controls, providing thorough mixing of samples in tubes up to 50 ml. Suitable for use in cold rooms and incubators.

- **360°C vertical rotation**
- **Vertical rotation speed range: 5 to 30 rpm**
- **Timer with audible alarm and automatic switch-off**
- **Simple to use controls**

Very easy to operate with simple controls and easy to view LED screen

Reliable and extremely quiet motor produces regulated rotation throughout the speed range

Compact with a low profile and small footprint – fits neatly into the workspace

Low voltage cord easily fits through incubator door gaskets



Platform accommodating 22 tubes (up to 15mm diameter) is included as standard. See additional accessories on page 9.10

**Applications:** ■ Suitable for preventing blood coagulation in tubes and for fulfilment of procedures of extraction of biological components.

## PTR-35 and PTR-60 360° vertical multi-function rotators

Compact and efficient variable-speed, variable-angle vertical rotators providing all the functionality – vertical rotation, reciprocation and vibration – for thorough mixing of microtubes and reproducible sample preparation. All mixing functions can be linked or used separately.

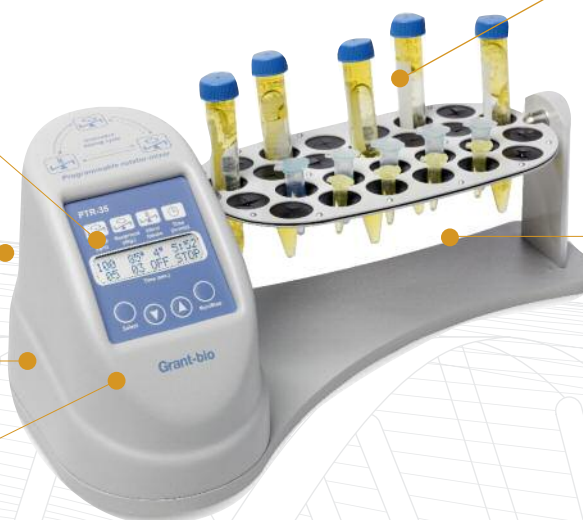
- **360° vertical rotation, reciprocation and vibration functions all in one compact product**
- **Choice of two models with different tube capacities**
- **Vertical rotation speed: 1 to 100 rpm**
- **Reciprocal rotation: 1 to 90° turning angle**
- **Vibration: programmable in a burst of 1 to 5 seconds**
- **Fully programmable sequence of functions, including pause**

Very easy to operate, with simple set-up of multi-segment programs via push buttons and the 2-line LCD status display

Reliable and extremely quiet motor produces regulated and reproducible rotation throughout the speed range

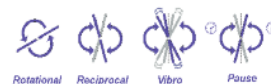
Compact with a low profile and small footprint – fits neatly into the workspace

Low voltage cord easily fits through incubator door gaskets



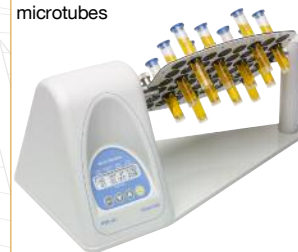
### PTR-35

All actions – rotation, reciprocation and vibration – can be set for continuous or timed operation, or linked together in different combinations to ensure optimum mixing conditions for your application



Supplied with platform accommodating up to 26 microtubes. Maximum rotating speed of up to 100 rpm

The PTR-60 has the same functionality as the PTR-35 and is supplied with platform accommodating up to 48 microtubes






### Applications:

- Life science laboratories - for hybridization reactions, cell growing, soft extraction and homogenisation of biological components in solutions, as well as for reactions of binding and washing of magnetic particles, cell suspensions, incubations, extraction procedures, gel washing mixing capillary blood samples.













## Rotators » specifications

### Grant bio rotators – models and specifications

● = optional

		PTR-25	PTR-35	PTR-60
		360° vertical rotators	360° vertical multi-function rotators	
				
		h: 175 mm d: 110 mm w: 310 mm weight: 1kg	h: 195 mm d: 155 mm w: 365 mm weight: 1.8kg	h: 230 mm d: 230 mm w: 420 mm weight: 3.8kg
Speed	rpm	5 to 30	10 to 100	
Turning angle (reciprocal mode)	°	–	15 to 90	15 to 90
Turning angle (vibration mode)	°	–	1 to 5	1 to 5
Timer, with automatic switch-off		1 min to 24 hours	1 min to 24 hours	1 min to 24 hours
Timer (orbital/360° vertical or reciprocal mode)	sec	–	1 to 250	1 to 250
Timer (vibration mode)	sec	–	1 to 5	1 to 5
Pause	sec	–	1 to 5	1 to 5
Microtube capacity	Ø 15mm max	22	26	48
Maximum load	kg	0.5	0.5	0.8
Display		LED	2 x 16 character LCD	2 x 16 character LCD
Ambient temperature range	°C	4 to 40	4 to 40	4 to 40
Input voltage	V dc	12	12	24
Input current	A	0.5	0.5	2.1

### Accessories

<b>PRS-22 replacement platform</b> for 22 tubes up to Ø 15 mm tube volumes 1.5-15 ml		●	–	–
<b>PRSC-18</b> heavy duty tube adaptor for 18 tubes up to Ø 11 mm		●	–	–
<b>PPRS4-12</b> holds 4 x 50ml and 12 x 1.5-15ml		●	–	–
<b>PRSC-10</b> heavy duty adaptor for 10 tubes up to Ø 30 mm tube volumes up to 50 ml		–	●	–
<b>PRSC-22</b> heavy duty adaptor for 22 tubes up to Ø 15 mm tube volumes up to 1.5 ml		–	●	–
<b>PRS-10</b> for 10 tubes up to Ø 30 mm tube volumes up to 50 ml		–	●	–
<b>PRS-26 replacement platform</b> tube adaptor for 26 tubes up to Ø 15 mm, 1.5 -15 ml		–	●	–
<b>PRS-5-12</b> combined platform for 5 tubes up to Ø 30 mm and 12 tubes up to Ø 15 mm, tube volumes 50 ml/1.5-15 ml		–	●	–
<b>PRS-1DP</b> Platform for microplates and racks for tall tubes 0.5 and 1 ml		–	●	–
<b>PRS-14</b> platform for 14 tubes up to Ø 30 mm tube volumes up to 50 ml		–	–	●
<b>PRS-48</b> replacement platform for 48 tubes up to Ø 15 mm, tube volumes 1.5-15 ml		–	–	●
<b>PRS-8-22</b> platform for 8 tubes up to Ø 30 mm plus 22 tubes up to Ø 15 mm tube volumes up to 50 mL/1.5-15 ml		–	–	●



Thank you for reading this data sheet.

For pricing or for further information, please contact us at our UK Office, using the details below.



**UK Office**

**Keison Products,**

**P.O. Box 2124, Chelmsford, Essex, CM1 3UP, England.**

**Tel: +44 (0)330 088 0560**

**Fax: +44 (0)1245 808399**

**Email: [sales@keison.co.uk](mailto:sales@keison.co.uk)**

Please note - Product designs and specifications are subject to change without notice. The user is responsible for determining the suitability of this product.